Fig. 1: Presepsin values in controls, patients with SIRS, sepsis (low grade) and severe sepsis/septic shock at admission
Fig. 2: Presepsin values in patients with SIRS, sepsis (low grade) and severe sepsis/septic shock at admission

0=SIRS, n=9; 1=sepsis, n=74; 2=severe sepsis/sept. shock, n=40

p<0.0001

p=0.0099
Fig. 3: APACHE II score in patients with SIRS, sepsis (low grade) and severe sepsis/septic shock 24 hours after admission.
Fig. 4:

Presepsin Discrimination between SIRS and sepsis

Sensitivity

100- Specificity

At admission, AUC=0.825
After 24 hours, AUC=0.846
Fig. 4: ROC analysis of presepsin for discrimination between SIRS and sepsis
Fig. 5: ROC curves for discrimination between survivors and non-survivors (30-day death)

Presepsin 8 hours after admission
AUC = 0.743

APACHE II score 24 hours after admission
AUC = 0.895

<table>
<thead>
<tr>
<th>Cutoff (pg/ml)</th>
<th>SENS (%)</th>
<th>SPEC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>91</td>
<td>50</td>
</tr>
<tr>
<td>825*</td>
<td>86</td>
<td>65</td>
</tr>
<tr>
<td>1000</td>
<td>76</td>
<td>68</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cutoff</th>
<th>SENS (%)</th>
<th>SPEC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>96</td>
<td>70</td>
</tr>
</tbody>
</table>
Fig. 6: Presepsin in the course of the disease
red: non-survivors; blue: survivors
Fig. 7: APACHE II score in the course of the disease
red: non-survivors; blue: survivors
Fig. 8: Distribution of presepsin concentration in the healthy control group
Fig. 9: Presepsin concentration in men and women of the healthy control group

p = 0.0435

Women, n = 31

Men, n = 91
Fig. 10: Age dependency of presepsin in the healthy control group
Risk stratification and mortality prediction by presepsin at presentation
Results of the clinical study Dr. Carpio

Risk in relation to presepsin concentration (ng/L)

- Very low: < 200
- Low: 200 - 300
- Moderate: 300 - 500
- High: 500 - 1000
- Very high: > 1000

% of patients

Controls | SIRS | Sepsis | Severe seps. + shock | 30-day death | 30-day comb EP